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- 1** Fast detection of communication patterns in distributed executions 99%

Thomas Kunz , Michiel F. H. Seuren
Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research November 1997

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...
- 2** Interactive Editing Systems: Part II 92%

Norman Meyrowitz , Andries van Dam
ACM Computing Surveys (CSUR) September 1982
Volume 14 Issue 3
- 3** Office-by-example: an integrated office system and database manager 89%

Kyu-Young Whang , Art Ammann , Anthony Bolmarcich , Maria Hanrahan , Guy Hochgesang , Kuan-Tsae Huang , Al Khorasani , Ravi Krishnamurthy , Gary Sockut , Paula Sweeney , Vance Waddle , Moshé Zloof
ACM Transactions on Information Systems (TOIS) October 1987
Volume 5 Issue 4

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language feature called example elements. Applications involving

example elements are processed by the database manager, an integrated ...

4 Reprint: Reflections on NoteCards: seven issues for the next generation 89%
of hypermedia systems



Frank G. Halasz

ACM Journal of Computer Documentation (JCD) August 2001

Volume 25 Issue 3

NoteCards, developed by a team at Xerox PARC, was designed to support the task of transforming a chaotic collection of unrelated thoughts into an integrated, orderly interpretation of ideas and their interconnections. This article presents NoteCards as a foil against which to explore some of the major limitations of the current generation of hypermedia systems, and characterizes the issues that must be addressed in designing the next generation systems.

5 Reflections on NoteCards: seven issues for the next generation of 89%
hypermedia systems



Frank, G. Halasz

Communications of the ACM July 1988

Volume 31 Issue 7

NoteCards, developed by a team at Xerox PARC, was designed to support the task of transforming a chaotic collection of unrelated thoughts into an integrated, orderly interpretation of ideas and their interconnections. This article presents NoteCards as a foil against which to explore some of the major limitations of the current generation of hypermedia systems, and characterizes the issues that must be addressed in designing the next generation systems.

6 Debugging heterogeneous distributed systems using event-based 88%
models of behavior



Peter C. Bates

ACM Transactions on Computer Systems (TOCS) February 1995

Volume 13 Issue 1

We describe a high-level debugging approach, Event-Based Behavioral Abstraction (EBBA), in which debugging is treated as a process of creating models of expected program behaviors and comparing these to the actual behaviors exhibited by the program. The use of EBBA techniques can enhance debugging-tool transparency, reduce latency and uncertainty for fundamental debugging activities, and accommodate diverse, heterogeneous architectures. Using events and behavior models as a basic mechanism ...

7 Cliché-based program editors 88%



Richard C. Waters

ACM Transactions on Programming Languages and Systems (TOPLAS) January 1994

Volume 16 Issue 1

8 A mechanism for automatically and dynamically changing software 88%
components



Katsuhisa Maruyama , Ken-ichi Shima


ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on Software reusability May 1997

Volume 22 Issue 3


9 Spoken dialogue technology: enabling the conversational user interface 87% **ACM Computing Surveys (CSUR)** March 2002

Volume 34 Issue 1

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

10 Experiences in developing a typical web/database application 87% J.-P. Rosen**Proceedings of the 2003 annual international conference on Ada: the engineering of correct and reliable software for real-time & distributed systems using ada and related technologies** December 2003

This paper describes Gesem, an application developed internally by Adalog for managing the registration to its training sessions. The application features a Web interface that uses AWS, an interface to the MySQL DBMS (over ODBC), and a local interface that uses GTK. The project explored various solutions, and identified a number of design patterns that made the development of new functionalities very straightforward. The experience gained in this project can be reused for any development in a si ...

11 Active database systems 87% Norman W. Paton , Oscar Díaz**ACM Computing Surveys (CSUR)** March 1999


Volume 31 Issue 1

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems in recent years, and many different proposals have been made and applications suggested. This high level of activity has not yielded a single agreed-upon standard approach to the integration of active functionality with conventional databa ...

12 Modular object-oriented programming with units and mixins 87% Robert Bruce Findler , Matthew Flatt**ACM SIGPLAN Notices , Proceedings of the third ACM SIGPLAN international conference on Functional programming** September 1998

Volume 34 Issue 1

Module and class systems have evolved to meet the demand for reuseable software components. Considerable effort has been invested in developing new module and class systems, and in demonstrating how each promotes code reuse. However, relatively little has been said about the interaction of these constructs, and how using modules and classes *together* can improve programs. In this paper, we demonstrate the synergy of a particular form of modules and classes---called units and mixins, respec ...

13 Ongoing management and application of discovered knowledge in a 87% large regulatory organization: a case study of the use and impact of

NASD Regulation's Advanced Detection System (RADS)

Ted E. Senator

Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining August 2000

14 Exploiting the map metaphor in a tool for software evolution

85%



William G. Griswold , Jimmy J. Yuan , Yoshikiyo Kato

Proceedings of the 23rd international conference on Software engineering July 2001

Software maintenance and evolution are the dominant activities in the software lifecycle. Modularization can separate design decisions and allow them to be independently evolved, but modularization often breaks down and complicated global changes are required. Tool support can reduce the costs of these unfortunate changes, but current tools are limited in their ability to manage information for large-scale software evolution. In this paper we argue that the map metaphor can serve as an org ...

15 Interactive proof checking

85%



Thomas Reps , Bowen Alpern

Proceedings of the 11th ACM SIGACT-SIGPLAN symposium on Principles of programming languages January 1984

Knowledge of logical inference rules allows a specialized proof editor to provide a user with feedback about errors in a proof under development. Providing such feedback involves checking a collection of constraints on the strings of the proof language. Because attribute grammars allow such constraints to be expressed in a modular, declarative fashion, they are a suitable underlying formalism for a proof-checking editor. This paper discusses how an attribute grammar can be used in an editor ...

16 Tools and transformations—rigorous and otherwise—for practical

85%



database design

Arnon Rosenthal , David Reiner

ACM Transactions on Database Systems (TODS) June 1994
Volume 19 Issue 2

We describe the tools and theory of a comprehensive system for database design, and show how they work together to support multiple conceptual and logical design processes. The Database Design and Evaluation Workbench (DDEW) system uses a rigorous, information-content-preserving approach to schema transformation, but combines it with heuristics, guess work, and user interactions. The main contribution lies in illustrating how theory was adapted to a practical system, and how the consistency ...

17 2.1: Foundations of 4Thought

85%



Arthur Ryman

Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 1 November 1992

4Thought, a prototype design tool, is based on the notion that design artifacts are complex, formal, mathematical objects that require complementary textual and graphical views to be adequately comprehended. This paper describes the combined use of Entity- Relationship modelling and GraphLog to bridge the textual and graphical views. These techniques are illustrated by an example that is formally specified in Z Notation.

18 Information retrieval on the web

85%



Mei Kobayashi , Koichi Takeda

ACM Computing Surveys (CSUR) June 2000

Volume 32 Issue 2

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

19 System-level power optimization: techniques and tools

85%



Luca Benini , Giovanni de Micheli

ACM Transactions on Design Automation of Electronic Systems (TODAES) April 2000

Volume 5 Issue 2

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survey ...

20 Separating features in source code: an exploratory study

85%



Gail C. Murphy , Albert Lai , Robert J. Walker , Martin P. Robillard

Proceedings of the 23rd international conference on Software engineering July 2001

Most software systems are inflexible. Reconfiguring a system's modules to add or to delete a feature requires substantial effort. This inflexibility increases the costs of building variants of a system, amongst other problems.

New languages and tools that are being developed to provide additional support for separating concerns show promise to help address this problem. However, applying these mechanisms requires determining how to enable a feature to be separated from the c ...

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